Title: SOMA'LOS'L'A'LINS AND MELLODS

Applicant(s): Mark Sheridan et al.

Serial No.: Unassigned

Docket No.: 255.0004 0101

Filed: Herewith

geby gery every every every every levely levely self every levely of the period of the

Sheet 1 of 8

SS I mRNA

SS II' mRNA

SS II' mRNA

SS II'' mRNA

Preprosomatostatin I

Preprosomatostatin II'

Preprosomatostatin II''

Prep

| ham | i.] |

Applicant(s): Mark Sheridan et al.

Serial No.: Unassigned Docket No.: 255.0004 0101 Filed: Herewith Sheet 2 of 8

PPSS - I

SEG 10 No. 8 5. GGGGGGGGGGAACAGGAGCAGAACTCAAAGAGAAGCCAATTGAACGATTGTCTGCCCAATTGAACCACCTTTATCC ATCCTCTCCCCCCGAGACCCAGAAGAAG ATG CTC TCG ACG CGT GTC CAG TGC GCC CTA GCA CTA CTC 152

SEQ 10 AU 3 Met Leu Ser Thr Arg Val Gln Cys Ala Leu Ala Leu Leu -88 TCC CTA GCC CTG GCC ATC AGC AGC GTC TCT GCC GCT CCG TCC GAT GCC AAA CTC CGC CAG CTG 214 Ser Leu Ala Leu Ala Ile Ser Ser Val Ser Ala Ala Pro Ser Asp Ala Lys Leu Arg Gln Leu -67 CTC CAA CGG TCA CTC ATG GCA CCT GCA GGC AAA CAG GAG CTT GCC AGG AAT ACA CTC GTA GAG 272 Leu Gln Arg Ser Leu Met Ala Pro Ala Gly Lys Gln Glu Leu Ala Arg Asn Thr Leu Val Glu -46 CTA CTC TCA GAG CTC GCA CAT GTA GAG AAC GAG GCG ATT GAA TTG GAT GAC ATG TCT CAT GGC 340 Leu Ser Glu Leu Ala His Val Glu Asn Glu Ala Ile Glu Leu Asp Asp Met Ser His Gly -25 GTG GAG CAG GAG GAT GTG GAT CTC GAG CTG GAG CGT GCA CCC GGC CCA GTA CTG GCT CCA CGT 403 Val Glu Gln Glu Asp Val Asp Leu Glu Leu Glu Arg Ala Pro Gly Pro Val Leu Ala Pro Arg GAA CGC AAG GCT GGA TGC AAG AAC TTC TTC TGG AAG ACC TTT ACA TCG TGT TAA TGAATCTACTC 466 Glu Arg Lys Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys *** CTTTACTGTGTGTACTACATCTCATCTCTTTTGTTTCAATCACTCATTGCTGAATCCAATGCACCATGGCCTAACCCTCCTCT 549 TCAAAAAATTTAAATAAACACTGTTATAACAATCATTCTGATGTTTCTATCGCTCACTTAGATTTTTTTCCGAAAAG GAACACAAGAAAGAATGTTCTACAAATGTATGCGGTTCTGCTTTGACTGTGATTTATGTATTTTTGCCAGACTATTTTTAATTG 715

Fig. a

Applicant(s): Mark Sheridan et al.

Serial No.: Unassigned

Docket No.: 255.0004 0101

Filed: Herewith

Sheet 3 of 8

PPSS-II' and PPSS-II"

SEG IONO: 14 PPSS - II'M	accaggectgetecatacegactgatecagategageatageceggtecagetexgetegtetacegegtgeea 75 accaggectgetecatateaactgatetagatecageacacecggtecagetetagete*****************************	
TELIDION 20 PESS = III	SEO 10 NO: 9 Lys Cys Arg	
PPSS II'n	CTG CTG GGT TTG GCC CTG GCC ATT TGC AGC CAA GGA GCC GCC TCG CAG CCC GAC CTG 196/-72 CTG CTG GGT CTG GCC CTG GCA ATT TGC AGC CAA GGA GCC GCC TCG CAG CCA GAC CTG 191/-68 Leu Leu Gly Leu Ala Leu Ala Ile Cys Ser Gln Gly Ala Ala Ser Gln Pro Asp Leu	!
6622- 114 6622- 11,		} 9
PPSS-11" PPSS-11"	AGT GGA GTA AGC CAG CGG TGG AGG ACA TTC TAT CCC AAC TGT CCT TGC CTG *** *** 304/-30 AGT GGA GTA AGC GAG CGA TGG AGG ACA TTC TAT CCG AAC TGT CCT TGC CTG AGG TGG 305/-30 Ser Gly Val Ser Glu Arg Trp Arg Thr Phe Tyr Pro Asn Cys Pro Cys Leu Arg Trp	5
PPSS·II" PPSS·II"	Cys Ala Gly Leu Arg Val Glu AGG CCC AGG AAA GTG AAG TGT CAA *** GCG GGG GCT AAA GAG GAC CTG CGT GTG GAG 358/-1: AGG CCC AGA AAA GTG AAG GGT CCA CAG CTG AAG GCC AAA GAG GAC *** *** *** 350/-1: Arg Pro Arg Lys Val Lys Gly Pro Gln Leu Lys Ala Lys Glu Asp	8 4
POSS-IIM	CTG GAG CGC TCA GTG GAC CCC AAC AAC CTT CCC CCC CGT GAG CGC AAA GCC GGC 415/+2 CTG GAG CGC TCA GTG GAC *** *** *** *** AAC CTT CCC CCC CGC GAG CGC AAA GCT GGC 398/+2 Leu Glu Arg Ser Val Aap Aan Leu Pro Pro Arg Glu Arg Lys Ala Gly	
PESS - II'		
PPSS-11"	atgacatgacgctgccaatcacgtcacaccgccaacttacacctgacgaatgcagccaatcaacagttagctgtg 552 8tgacacaatgcattcaatcacatcacaccgccaaccttcatctgactaatgtagccaatcagcaattagctgtg 535	
E PPSS-II	cccgatgatggttettgaaateaacagaatgatgtacetgtetaatttgtga <u>aataaa</u> tataaataattg(a)n cccgatgacaattatgattatgatgtacetgaetaatttaga <u>aataaag</u> aga <u>aataaag</u> agagaaac(a)n	

Title: SOMATOSTATINS AND METHODS Applicant(s): Mark Sheridan et al.

Serial No.: Unassigned

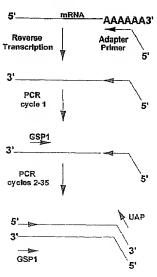
Docket No.: 255.0004 0101

Filed. Herewith

Sheet 4 of 8

Phase I

Phase II



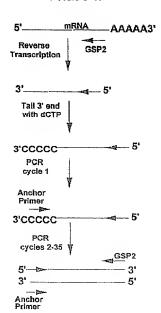


Fig. 4

that gang are great the state after the state of the stat

Applicant(s): Mark Sheridan et al.

Serial No.: Unassigned

Docket No.: 255.0004 0101

Filed: Herewith

Sheet 5 of 8

Nucleotide Identity

TR II'	82.8	49.0	43.7	52.3	51.0	52.0	51.5	51.1	52.8	54.5
84.1	TR II"	48.2	3 9.1	44.9	50.0	50.0	49.5	48.0	49.8	52.5
45.5	43.9	TRI	58.1	77.0	67.7	68.9	67.9	69.4	69.4	72.5
35.6	35.6	52.3	AF I	60.1	58.8	55 1	53.8	55.3	56.8	56.8
44.7	40.9	73.5	52.3	CF!	65.7	68.7	67.7	68.4	67.7	72.2
47.7	44.7	70.5	49.2	64.4	FR (75.0	74.5	62 ,6	75.5	78.3
42.4	38.6	66.7	46.2	63.6	78.8	С	84.1	84.3	84.3	84.3
42.4	38.6	65 2	45.5	62.9	78.0	87.9	R	92.4	91.2	92.2
42.4	38.6	66.7	46.2	63.6	78.8	88.6	97.0	В	94.4	95.5
42.4	38.6	64.4	46.2	62.9	78.8	90.9	96.2	98.5	M	98.7
45.5	42.4	73.5	47.7	68 2	87.1	91.7	97.7	98.5	100	Н

Amino Acid Identity

Fig. 5

The second state of the se

Sheet 6 of 8

Comparison of Amino Acid Sequences of Peptides Derived from Preprosomatostatin \mathbb{I}^a

	-20	-10	+	+10	+14
Rainbow trout ^b		APG**PULAP	RERKAGCKN	FFWKTFT	SCAFG TO NO. 4
Hagfish ^d	AVERP	RQDGQVHEPPG	RERKAGCKN	FWKTF	S C S (P. O.)
Lamprey ^d			AGCKN	FFWKTFT	SCSEOTO
$Torpedo^d$			AGCKN	FFWKTFT	S C S C & C & + C
Ratfish ^d			AGCKS	FFWKTFT	SCSFOTO
Bowfin ^d		SAN * * PALAP	RERKAGCKN	FFWKTFT	SCSEQID
Sturgeon ^d			APCKN	FFWKTFT	S C S P Q HO
Catfish ^d			AGCKN	FFWKTFT	SCSFQ
Salmon ^d			AGCKN	FFWKTFT	SCSEQ TO NO.
Anglerfish		AASGGPLLAP	RERKAGCKN	FFWKTFT	S C SFO TO NO.
Ee1 ^d			AGCKN	FFWKTFT	S CSEQ TO NO:
Flounder			AGCKN	FYWKGFT	SOSPICE
Sculpin ^d			AGCKN	FYWKGFT	S C UAFO
${ t Frog}^c$			AGCKN	FFWKTFT	SCSFB
Salamander ^d			AGOKN	FFWKTFŢ	SC SGO TO
Alligator ^d			AGCKN	FFWKTFT	S
$Pigeon^d$			AGCKN	FFWKTFT	SCSEC ID SO:
Ovine ^d		SANSNPAMAP	RERKAGCKN	FFWKTFT	C.

Applicant(s): Mark Sheridan et al.

Serial No.: Unassigned

Docket No.: 255.0004 0101

Filed: Herewith

Sheet 7 of 8

SEQUENCE COMPARISON

		the state of the s
SEQIDNO: 9	TRII'	MKYCRTHCALAITGIALAICSOGAASOPDLDIRSRRILORARAAAWPHRSGYSER
sewed No; 15	TRII"	MRVSQIHCALATIGIALATCSQGAASQPDIDLASRRITQRALAAALPHRSGVSER
SEQIONO: 36	CFII	MSSSPLRLALALMCLVSAVGVISCGRPHVVLNSAHEEABNVPFGEEVPERLT
SEQIONO: 37	AFII	MOCEREPATHALLATIVLEGPSVSSQLDREQSDMQDLDLETROHWITTERARSAGLLSQEWSKRA
SEWEDNO: 38	GFII	MRLCELHCYCATLGESEVLCGRCANSQLEFDLDFRHHRLLQRASATGQATQDFTKRD
SER ER NO'. 39	GFIII	PVEERNPAQSRELSKE-RKELILKL
SEQ TO NO: 40	FRII	PDDNRITTGRNQDLNAIQQDLLLKL
SEQIONO: 3	TRI	MLSTRVQCATATILSTATATSSVSAAPSDAKLRQLIQRSLMAPAGKQELARUT
SERIONO, 41	CFI	MPSTRTQCATATTAVALSVCSVSGAPSDAKLRQFTQRSILAPSVKQELTRYT
SECTONO; 42	AFI	MKMVSSSRLRCLTVITLSLTASISCSFAGORDSKLRLTTHRYPLOGS-KODMTRSA
SEGIONO. 43	GFI	MLSTRIQCATATUSLALAVCSVSAAPTDAKLROLHORSLLNPAGKQELARYT
SEW ED NO: 44	FRI	MOSCRVQCAUTILISIALAINSISÄAPTPPRLRQFLQKSLASAG-KQELAKYF
SEQIONO, 45	С	MLSCRLOCATATUSIALAVGTVSAAPSDPRLROFTOKSLAAAAGKQELAKYF
SEW ID NO: 46	R	MLSCRLOCATAAICIVIALGGVTGAPS
SEQ TONO: 47	В	MLSCRLODATAATISIVHALGGVTGAPSDPRLRQFTQKSLAAAAGKQELAKYF
SEGIONO, 48	М	MLSCRLOCATAAUSIVLALGCVTGAPS
agsed te No. 49	Н	MLSCRLOCALAADSIVLALGCVTGAPSDPRLRQFLQKSLÄAAAGKQELAKYF

(continued)

WRTEVENCECLR--ERKYKCE-AGAKE-DLR--VELERSVGN-PNNLPERERKAGGKNEYWKGETSC WRIENDNOSCIBMUSERRARGEOFFRARE-DI-----ERSA---- DNIBSEERRAGCKNENMRGEISC LPELQW-MLSNNELTPVQVEEAPRS-----RLEEVRRDN----T-VTSKPLNEMNYFWKSRWAC VEELLAQMSLPEATFORFAEDASHATE-G---RMNLERSYDS-THNLERERKAGCKNEYWKGFTSC VEKLLSLISIPEHENR--EKGLSMAGE-SEDLRLEGERSAES-SNOLETRVRKEGEKNEYWKGETSG ISGLLD--GVDNSVLDGEIABVPFDAEEFLESRLE-ERAVYNRLSQLEGRORKEPEKNEFWKTETSC LSGWTD--S-RESNLVEVERNVPDPPE-P----KIPPSVK--FPRESLRERKEPEKNEFWKTETTMC LVELLS-ELAHVENEAIELDDMSHGVE-QEDVDLELERAPG---PVLAERERKAGCKNEFWKTFISC LAELLA-ELAEAENEVLOSDEVSRAAE-SEGARLEMERAAG---PMIAPRERKAGCKREFWKTETSC LAELLISDILOGENEALEEENFPLAEGGPEDAHADEERAASG-GPLLAPRERKAGGKNFFWKTETSC LADLIS-ELVOAENEALEPEDISRAVE-KDEVRLELERAAG---PNILAPRERKAGGKNFFWKTETSC LAELLS-EBSOTDNEALESDDLPRGAB-ODEVRLETERSANS-SPATIAPREKATEKNFFWKTETSC LAELLS-EBSOTENEALESEDLSRGAB-ODEVRLETERSANS-NPATIAPREKATEKNFFWKTETSC LAELLS-EBNOTENDALEPEDLPQAAB-ODEMRLEDORSANS-NPAMABRERKATEKNFFWKTETSC LAELLS-EPNOTEIDALEPEDLSQAAE-QDSMRLELORSANS-NPAMAPRERKAGCKNEFPKTENSC LAELLS-EPNOTENDALEPEDLSQAAE-QDEMRLETQRSANS-NPAMAPRERKIGOKNEFNKTETSC LAELLS-EPHOTENDALEPEDLSQAAE-QDEHRLELQRSANS-NPANAERERKAGOKNEFTKTETSC Title: SOMATOSTATINS AND METHODS Applicant(s): Mark Sheridan et al. Serial No.: Unassigned Docket No.: 255.0 Filed: Herewith

Docket No.: 255.0004 0101

And the first the level of the soul with the state of the soul the state of the soul the soul of the s

Sheet 8 of 8

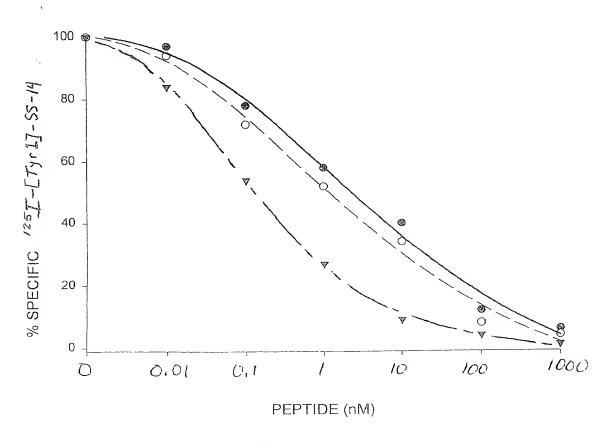


Fig. 8